



MVD background calculations

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Background = average number of e^- and e^+ hitting
Pad Chamber 3 (**PC3**) per event.

source of background pt > 200 MeV/c	old pisa MVD, old pisa nosecone (e/event)	current pisa MVD, old pisa nosecone (e/event)	current pisa MVD, Feb 98 version of new nosecone, no z_0 cut (e/event)	current pisa MVD, Feb 98 version of new nosecone, $ z_0 < 35$ (e/event)	with MVD removed, “background” from MVD (e/event)
MVD barrel MCMs, Power/-comm, plenum	$0.07 \pm .02$	$0.63 \pm .06$	$0.57 \pm .04$	0.61	0.00
Si in barrel, ro-hacell C cages	$0.46 \pm .06$	$0.43 \pm .06$	$0.38 \pm .04$	0.40	$0.01 \pm .01$
pads + mother-boards	$0.20 \pm .05$	$0.26 \pm .08$	$0.25 \pm .04$	0.12	0.00
MVD enclosure, frame	$0.59 \pm .09$	$0.48 \pm .07$	$0.45 \pm .05$	0.32	$0.02 \pm .01$
MVD total	$1.45 \pm .13$	$1.87 \pm .15$	$1.72 \pm .09$	1.53	$0.12 \pm .03$
nosecone	$1.28 \pm .12$	$1.18 \pm .09$	$1.11 \pm .07$	0.97	$1.44 \pm .13$
Dalitz + beam pipe	$0.89 \pm .08$	$0.85 \pm .08$	$0.89 \pm .06$	0.92	$0.99 \pm .08$
total	$18.97 \pm .38$	$20.00 \pm .43$	$13.13 \pm .24$	13.15	$18.05 \pm .39$
number of events used in analysis	150 PC3	150 PC3	316 PC2	292 PC2	150 PC3

PC2: n-tuples from Charlie Maguire's work.